



NOAA in Your Backyard – The Mid-Atlantic Region

Educational Opportunities and Education/Outreach Specialists for VA, NJ, DE, DC, MD, Eastern PA, and Eastern NY

NOAA in Your State – State by State Listings of NOAA Facilities and Programs

** A summary of NOAA facilities, staff, programs, or activities based in, or focused on, your state or territory.*

- <http://www.legislative.noaa.gov/NIYS/>

National Weather Service – School Visits, Forecast Office Tours, Student and Educator Resources

** The National Weather Service provides weather, hydrologic, and climate forecasts and warnings for the United States, its territories, adjacent waters and ocean areas.*

- **New York Weather Forecast Office (Upton, NY)** – <http://www.weather.gov/okx/education>
Contact: Gary Conte (Warning Coordination Meteorologist) - gary.conte@noaa.gov
- **Philadelphia Weather Forecast Office (Mount Holly, NJ)** – <http://www.weather.gov/phi/outreach>
Contact: Joseph Miketta (Warning Coordination Meteorologist) - joseph.miketta@noaa.gov
- **Central Pennsylvania Weather Forecast Office (State College, PA)** – <http://www.weather.gov/ctp/Outreach>
Contact: Peter Jung (Warning Coordination Meteorologist) - peter.jung@noaa.gov
- **Baltimore/Washington Weather Forecast Office (Sterling, VA)** – <http://www.weather.gov/lwx/>
Contact: Christopher Strong (Warning Coordination Meteorologist) - christopher.strong@noaa.gov
- **Roanoke Weather Forecast Office (Blacksburg, VA)** – <http://www.weather.gov/rnk/OurOffice>
Contact: Phil Hysell (Warning Coordination Meteorologist) - phil.hysell@noaa.gov
- **Wakefield Weather Forecast Office (Wakefield, VA)** – <http://www.weather.gov/akq/>
Contact: Bill Sammler (Warning Coordination Meteorologist) - william.sammler@noaa.gov

National Estuarine Research Reserve System – Field Trips, Professional Development, Educator Resources

** The National Estuarine Research Reserves System protects more than 1.3 million coastal and estuarine acres in 28 reserves located in 22 states and Puerto Rico for purposes of long-term research, environmental monitoring, education and stewardship.*

- **National Website** – www.nerrs.noaa.gov and www.estuaries.noaa.gov
- **Hudson River Reserve (NY)** – <http://www.dec.ny.gov/lands/39663.html>
Contact: Chris Bowser (Education Coordinator) - chris.bowser@dec.ny.gov
- **Jacques Cousteau Reserve (NJ)** – <http://jcnerr.org/education/>
Contact: Melanie Reding (Education Coordinator) - reding@marine.rutgers.edu
- **Delaware Reserve (DE)** – <http://www.dnrec.delaware.gov/coastal/DNERR/Pages/DNERREducationTraining.aspx>
Contact: Maggie Pletta (Education Coordinator) - margaret.pletta@state.de.us
- **Chesapeake Bay Reserve (MD)** – <http://www.dnr.state.md.us/waters/CBNERR/education.asp>
Contact: Coreen Weilminster (Education Coordinator) - cweilminster@dnr.state.md.us
- **Chesapeake Bay Reserve (VA)** – <http://www.vims.edu/cbnerr/education/index.php>
Contact: Sarah McGuire Nuss (Education Coordinator) - m McGuire@vims.edu

NOAA National Marine Sanctuaries – Field Trips, Professional Development, Educator Resources

** NOAA's 15 National Marine Sanctuaries serve as the trustee for the nation's system of marine protected areas, to conserve, protect, and enhance their biodiversity, ecological integrity and cultural legacy.*

- **National Website** – <http://sanctuaries.noaa.gov/education/welcome.html>
- **Monitor Sanctuary (VA)**: <http://monitor.noaa.gov/education/welcome.html>
Shannon Ricles (Education and Outreach Coordinator) - Shannon.Ricles@noaa.gov



National Marine Fisheries in the Mid-Atlantic – Student Opportunities, Laboratory Facilities, NOAA Scientists

** The NOAA Fisheries Service is dedicated to the stewardship of living marine resources through science-based conservation and management, and the promotion of healthy ecosystems. They have regional offices and several smaller field offices.*

- **National Website** – www.nmfs.noaa.gov/stories/2012/10/noaa_fisheries_education.html
- **Greater Atlantic Regional Office (headquarters in Gloucester, MA)** – <http://www.greateratlantic.fisheries.noaa.gov>
Contact: Colleen Coogan (Education and Outreach Specialist) - colleen.coogan@noaa.gov
Mid-Atlantic Field Offices: East Hampton, NY and Hampton, VA
- **Northeast Fisheries Science Center (headquarters in Woods Hole, MA)** – <http://www.nefsc.noaa.gov>
Contact: Dr. Ambrose Jearld (Chief: Academic Programs Office) - ambrose.jearld@noaa.gov
Mid-Atlantic Laboratory Facilities: Sandy Hook, NJ and Washington, DC
- **Chesapeake Bay Office (headquarters in Annapolis, MD)** – <http://chesapeakebay.noaa.gov/education/education>
Contact: Bart Merrick (Education Coordinator) - Bart.Merrick@noaa.gov
Mid-Atlantic Field Offices: Oxford, MD; Gloucester Point, VA; and Norfolk, VA

National Sea Grant Program – Professional Development, Curriculum, Student and Educator Resources

**Sea Grant is a nationwide network of 33 university-based programs that conduct scientific research, education, training, and extension projects designed to foster science-based decisions about the use and conservation of our aquatic resources.*

- **National Website** – www.seagrant.noaa.gov/HowWeWork/Education.aspx and <http://www.seagranted.net>
- **New York Sea Grant** – <http://www.seagrant.sunysb.edu/articles/t/focus-on-education>
Contact: Amy Mandelbaum (Outreach Coordinator) – acb328@cornell.edu
- **New Jersey Sea Grant** – <http://njseagrant.org/education/>
Contact: Diana Burich (K-12 Program Coordinator) - dburich@njseagrant.org
- **Pennsylvania Sea Grant** – <http://www.paseagrant.org/education/>
Contact: David B. Boughton (Maritime Education Specialist) - dbb11@psu.edu
- **Delaware Sea Grant** – <http://www.deseagrant.org/education>
Contact: Christopher Petrone (Marine Education Specialist) - petrone@udel.edu
- **Maryland Sea Grant** – <http://www.mdsg.umd.edu/our-education-programs>
Contact: Adam Frederick (Assistant Director for Education) - frederic@mdsg.umd.edu
- **Virginia Sea Grant** – <http://vaseagrant.vims.edu/category/coastal-ocean-literacy/>
Contact: Lisa Ayers Lawrence (Marine Education Specialist) - ayers@vims.edu

Integrated Ocean Observing System (IOOS) – Curriculum, Real World Data, and Multimedia

** The Mid-Atlantic Regional Association Coastal Ocean Observing System's (MARACOOS) mission is to seek, discover, share and apply new knowledge and understanding of our coastal ocean.*

- **National Website** – www.ioos.noaa.gov/education/welcome.html
- **MARACOOS (Newark, DE)** – <http://maracoos.org/education>
Contact: Peter Moore (Stakeholder Liaison) – moore@maracoos.org

Chesapeake Bay-Watershed Education and Training (B-WET) Program – Competitive Grants

** B-WET is an environmental education program that promotes locally relevant, experiential learning in the K-12 environment.*

- **National Website** – <http://www.oesd.noaa.gov/grants/bwet.html#page=about>
- **Chesapeake B-WET** – <http://chesapeakebay.noaa.gov/bay-watershed-education-and-training-b-wet/>
Contact: Kevin Schabow (Chesapeake Bay Office) – kevin.schabow@noaa.gov

Geophysical Fluid Dynamics Laboratory (GFDL) – Tours and Student Internships on Climate Modeling

**Scientists at GFDL develop and use mathematical models and computer simulations to improve our understanding and prediction of the behavior of the atmosphere, the oceans, and climate..*

- **Located in Princeton, NJ** – <http://www.gfdl.noaa.gov/for-students>
Contact: Maria Setzer (Lead, Communications and Outreach) – maria.setzer@noaa.gov

Cooperative Institute for Climate and Satellites - Maryland (CICS-MD) – *Student Opportunities, ClimateBits Videos, Blogs*

**CICS-MD performs collaborative research aimed at enhancing NOAA's ability to use satellite observations and Earth System models to advance the national climate mission, including monitoring, understanding, predicting and communicating information on climate variability and change.*

- **Located in College Park, MD** – <http://cicsmd.umd.edu/outreach/>
Contact: Debra Baker (CICS-MD Coordinator) - dbaker@essic.umd.edu

National Ocean Science Bowl (NOSB) – *Regional Competitions in the Ocean Sciences*

** The NOSB is a national high school academic competition with regional competitions for student teams to test their knowledge of the marine sciences including biology, chemistry, physics, and geology.*

- **Bay Scallop Bowl (NY)** – <http://you.stonybrook.edu/bayscallopbowl/>
Contact: Bill Wise (Region Coordinator) - William.Wise@stonybrook.edu
- **Chesapeake Bay Bowl (MD, DE, PA, VA, DC)** – <http://www.chesapeakebaybowl.org>
Contact: Richard Friesner (Region Coordinator) - rfriesne@gmu.edu
- **Shore Bowl (NY, NJ, PA)** – <http://coseenow.net/blog/2014/08/2015-shore-bowl/>
Contact: Carrie Ferraro (Region Coordinator) - ferraro@marine.rutgers.edu
- **Blue Crab Bowl (VA)** – <http://web.vims.edu/BCB/>
Contact: Victoria Hill (Region Teams Coordinator) - vhill@odu.edu

Centers for Ocean Science Education Excellence (COSEE) – *Educator Workshops, Resources, Connect to Scientists*

**COSEE is a network of over 270 institutional partners with the mission to spark and nurture collaborations among research scientists and educators to advance ocean discovery and make known the vital role of the ocean in our lives. (Most information is archived)*

- **National Website** – <http://www.cosee.net/>
- **COSEE Coastal Trends (MD) *Legacy Site** – <http://coseecoastaltrends.cosee.net/programs/foreducators/>
Contact: Adam Frederick (MD Sea Grant - Assistant Director for Education) - frederic@mdsg.umd.edu
- **COSEE NOW (Networked Ocean World) (NJ/National Network)** – <http://coseenow.net/education-resources/>
Contact: Carrie Ferraro (Project Coordinator) - ferraro@marine.rutgers.edu

Local NOAA Vessels – *Follow Current Science off the Atlantic Coast*

- **NOAA Teacher at Sea** (follow teacher blogs onboard the ships) - <http://teacheratsea.noaa.gov/>
- **Marine Operations Center-Atlantic Fleet (Norfolk, VA)** - <http://www.moc.noaa.gov/MOC-A/index.html>
- **NOAA Ship Thomas Jefferson (Norfolk, VA)** - <http://www.moc.noaa.gov/tj/index.html>
- **NOAA Ship Nancy Foster (Norfolk, VA)** - <http://www.moc.noaa.gov/nf/index.html>
- **NOAA Ship Ronald H. Brown (Norfolk, VA)** - <http://www.moc.noaa.gov/rb/index.html>

Mid-Atlantic Data Resources – *Historical and Real-Time Data*

- Chesapeake Bay Recent Marine Data - http://www.ndbc.noaa.gov/maps/Chesapeake_Bay.shtml
- Middle Atlantic River Forecast Center - <http://www.weather.gov/marfc/>
- Regional Climate Data (DC/Baltimore) - <http://www.weather.gov/climate/locations.php?wfo=lwx>
- Tide Predictions Map - <http://tidesandcurrents.noaa.gov/gmap3/index.shtml?type=TidePredictions®ion=>
- Chesapeake Bay PORTS (Physical Oceanographic Real-Time System) –
 - Southern Bay - <http://tidesandcurrents.noaa.gov/ports/index.html?port=cs>
 - Northern Bay - <http://tidesandcurrents.noaa.gov/ports/index.html?port=cn>
- Mid Atlantic Graphical Weather Forecasts - <http://graphical.weather.gov/sectors/midatlantic.php>
- Real-time Oceanographic Data Map - <http://assets.maracoos.org>
- Chesapeake Bay Sea Nettle Forecast Map - <http://www.opc.ncep.noaa.gov/Loops/SeaNettles/prob/SeaNettles.shtml>
- Chesapeake Bay Interpretive Buoy System (CBIBS) - <http://buoybay.noaa.gov>
- Atlantic Google Earth Overlays - http://maracoos.org/google_earth
- SW Virginia Fire Weather Forecast - http://www.erh.noaa.gov/rnk/emer/emer_fire.php
- Regional Air Quality Forecast - http://airnow.gov/index.cfm?action=airnow.local_state&stateid=48&mapcenter=0&tabs=0

Local Weather Events – Local Historical Weather Data

- New York City/ Tri-State Area Searchable Storm Event Database - <http://www.ncdc.noaa.gov/stormevents/choosedates.jsp?statefips=36%2CNEW+YORK>
- Coastal Virginia Historical Weather Records - http://www.weather.gov/climate/local_data.php?wfo=akq
- Mid-Atlantic Weather Event Archive - <http://www.weather.gov/phi/archives>
- Western VA Historical Weather Records - http://www.weather.gov/climate/local_data.php?wfo=rnk
- Baltimore/Washington Historical Weather Records - http://www.weather.gov/climate/local_data.php?wfo=lwx
- Hurricane Sandy - <http://www.weather.gov/okx/HurricaneSandy>

NOAA Science On a Sphere® (SOS) Locations – Earth Systems Data Shown on a 6-foot Globe

** SOS is a room-sized, global display system that uses computers and video projectors to display planetary data onto a six foot diameter sphere, analogous to a giant animated globe. It was developed by researchers at NOAA to help illustrate complex environmental processes (atmospheric storms, ocean currents, climate change, etc...) in a captivating way.*

- Danville Science Center (Danville, VA) - <http://www.dsc.smv.org>
- Nauticus National Maritime Center (Norfolk, VA) - <http://www.nauticus.org>
- Science Museum of Virginia (Richmond, VA) - <http://smv.org>
- James Madison University (Harrisonburg, VA) - <http://www.cisat.jmu.edu/sos/>
- NASA Wallops Flight Facility Visitor Center (Wallops Island, VA) - <http://www.nasa.gov/centers/wallops/visitorcenter/>
- Smithsonian National Museum of Natural History (Washington, DC) - <http://www.mnh.si.edu>
- Smithsonian's National Zoo (Washington, DC) - <http://nationalzoo.si.edu>
- NOAA Headquarters (Silver Spring, MD) - <http://sosinssmc.education.noaa.gov/index.php>
- NASA Goddard Space Flight Center (Greenbelt, MD) – <http://www.nasa.gov/centers/goddard/visitor/home/index.html>
- St. Charles High School (Waldorf, MD) - <http://www.stcharlesmd.com/schools>
- Maryland Science Center (Baltimore, MD) - <http://www.mdsci.org>
- Whitaker Center for Science and the Arts (Harrisburg, PA) - <http://www.whitakercenter.org>
- Nurture Nature Center (Easton, PA) - <http://nurturenaturecenter.org>